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BOOK REVIEWS

Adams and Maegraith: Tropical medicine for nurses. 3rd edit. [Maegraith, B. G. & Gilles, H. M.], 2746
Advances in parasitology. Vol. 7 [Dawes, B., ed.], 778; Vol. 8 [Dawes, B., ed.], 1414
Africa's bane: the tsetse fly. [Nash, T. A. M.], 1158
Alimentary and haematological aspects of tropical disease. [Woodruff, A. W., ed.], 2745
Amino-acid content of food and biological data on proteins. [Cresta, M. & Odendaal, W. A.], (2984)
Angiostrongylosis in the Pacific and Southeast Asia. [Alicata, J. E. & Jindrak, K.], 2342
Basic clinical parasitology. 3rd edit. [Brown, H. W.], 1165
Bibliography of animal venoms, envenomations, and treatments. (Period 1500–1968.) [Rosenfeld, G. & Kelen, E. M. A.], 896
Bibliography of Hartmannellid and related amoebae (to 1969). [Dolphin, W. D.], (1253)
Bibliography of Sir Philip Manson-Bahr . . . 1881–1966. [Duggan, A. J., comp.], 2334
Bilharzioses humaines à Madagascar. 2nd edit. [Brygoo, E. R.], 2583
Biology of mosquito-borne disease. [Mattingly, P. F.], 782
Bredin-Archbold-Smithsonian biological survey of Dominica: the mosquitoes of Dominica. [Stone, A.], (197)
Britain and the developing countries: Health. [Central Office of Information], 1172
Building the health bridge. Selections from the works of Fred L. Soper, M.D. [J. A. Kerr, ed.], 2073
Changing patterns: an atypical autobiography. [Burnet, M.], 2747
Clinical disorders of hemoglobin structure and synthesis. [Necheles, T. F., *et al.*], 2339
Computerized mapping of disease (MOD) and environmental data. [Hopps, H. C., *et al.*], 1173
Conference on parasitic diseases, 3rd. Bangkok, 1967. [S.E. Asian Regional Centre for Tropical Medicine], (524)
Cooper's Nutrition in health and disease. 15th edit. [Mitchell, H. S., *et al.*], 2742
Diagnostico de laboratorio de la toxoplasmosis. [Maekelt, G. A.], 2341
Diseases of children in the subtropics and tropics. 2nd edit. [Jelliffe, D. B., ed.], 2741
Ecología y comportamiento de las moscas domésticas. Parte 1. *Musca domestica* L. [Hecht, O.], 2979
Economic advantages of anti-malaria measures amongst the rural population. [Malik, I. H.], 230
Economic effects of malaria eradication. [Barlow, R.], (231)
Éléments d'hygiène et de santé publique sous les tropiques. 2nd edit. [Lapeyssonnie, L.], 2337
Éléments de parasitologie médicale. [Golvan, Y. J.], 1415
Enquêtes nutritionnelles. Méthodes et interprétation des résultats. (A propos des enquêtes faites en Afrique). [Dupin, H.], 2518
Entomoepidemiologia de la Republica Argentina. [Carcavallo, R. U. & Martinez, A.], 1417
Épidémiologie des leishmanioses dans le sud de la France. [Rioux, J. A. & Golvan, Y. J.], 1780
Experiments and techniques in parasitology. [MacInnis, A. J. & Voge, M., eds], 2340
Filariasis and immunology of parasitic infections. Proceedings of seminar and laboratory meeting, Singapore, 1968. [Sandosham, A. A. & Zaman, V., eds], 212
Fluorescent antibody techniques and their applications. [Kawamura, A., ed.], 1409
Food and man. [Lowenberg, M. E., *et al.*], 2743
Ghosh's Treatise on hygiene and public health (preventive and social medicine) with special reference to the tropics. 15th edit. [Battacharya, J. K., ed.], 2985
Guide for identification of snail intermediate hosts of schistosomiasis in the Americas. [Pan American Health Organization], 2584
Guide to laboratory diagnosis of smallpox for smallpox eradication programmes. [World Health Organization], 784
Haemoflagellates of sloths. [Shaw, J. J.], 1159
Health and the developing world. [Bryant, J.], 2336
History of bubonic plague in the British Isles. [Shrewsbury, J. F. D.], 1160
Human ecology in the tropics. Symposia of the Society for the Study of Human Biology. Vol. 9. [Garlick, J. P. & Keay, R. W. J., eds], 1169
Human schistosomiasis. [Jordan, P. & Webbe, G.], 780
Immunisation procedures. [Islam, A. K. N.], 1418
Immunity to parasitic animals. Vol. 1. [Jackson, G. J., *et al.*, eds], 779
Industry and tropical health, VI. Proceedings of 6th Conference, Boston, U.S.A., 1966. [Industrial Council for Tropical Health], 1171
Infant nutrition. [Fomon, S. J.], 783
Inflammatory diseases of the bowel. [Ross Institute Information & Advisory Service], 1174
Interactions of nutrition and infection. [Scrimshaw, N. S., *et al.*], 1164
International congresses on tropical medicine and malaria, 8th. Teheran, 1968 (Sessions on venoms and poisons), 453
International review of tropical medicine. Vol. 3. [Lincicome, D. R. & Woodruff, A. W., eds], 2335

BOOK REVIEWS—*cont.*

International symposium on animal toxins, First. Atlantic City, U.S.A., 1966. [Russell, F. E. & Saunders, P. R., eds], 785
International symposium on health aspects of international movement of animals. San Antonio, U.S.A., 1968. [Pan American Health Organization], 1170
Learning better nutrition. A second study of approaches and techniques. [Ritchie, J. A. S.], 214
Leitfaden zur Untersuchung der tierischen Parasiten des Menschen und der Haustiere. 4th edit. [Reichenow, E., *et al.*], 2074
Lives in peril. Protein and the child. [Food and Agriculture Organization], 2918
Malaria and its control. [Ross Institute Information & Advisory Service], 526
Malnutrition, learning and behavior. [Scrimshaw, N. S. & Gordon, J. E., eds], 1163
Manual on food and nutrition policy. [Johnston, B. F. & Greaves, J. P.], (1154)
Morphology and pathogenicity of bladder worms *Cysticercus cellulosae* and *Cysticercus bovis*. [Slais, J.], 1593
Mycoses oculaires. [François, J.], 2338
Native African medicine. With special reference to its practice in the Mano tribe of Liberia. [Harley, G. W.], (2343)
Nepal health survey 1965–1966. [Worth, R. M. & Shah, N. K.], 525
Notes on preservation of personal health in warm climates. 6th rev. edit., reprinted. [Ross Institute of Tropical Hygiene], (210)
Nutrition program. Food composition table for use in Africa. [Leung, W. T. W., *et al.*], (1317)
Organisation de coordination et de coopération pour la lutte contre les grandes endémies (O.C.C.G.E.). Technical conferences.
8th, Bamako, 1968. 2 vols., 1412
9th, Bobo-Dioulasso, 1969. 2 vols., 1413
Parasites of man and animals in Hawaii. [Alicata, J. E.], 781
Parasitic diseases in Africa and Western Hemisphere. Early documentation and transmission by the slave trade. [Hoeppli, R.], 1744
Parasitic protozoa. [Baker, J. R.], 777
Parasitology (protozoology and helminthology) in relation to clinical medicine. 7th edit. [Chatterjee, K. D.], 2739
Pharmacological and chemotherapeutic properties of niridazole and other antischistosomal compounds. [Goble, F. C., ed.], 613
Physiology of cestodes. [Smyth, J. D.], 21[illegible]
Poisonous and venomous marine animals of the world. Vol. I, Invertebrates. [Halstead, B. W.], 786
Principles of insect chemosterilization. [LaBrecque, G. C. & Smith, C. N., eds], 1168
Protein calorie malnutrition in children. [Ross Institute Information & Advisory Service], 1743
Protein-calorie malnutrition. Nestlé Foundation symposium. [Von Muralt, A., ed.], 2744
Protein foods for the Caribbean. Proceedings of conference, Georgetown, Guyana, 1968. [McKigney, J. I. & Cook, R., eds], 1953
Rabies: general considerations and laboratory procedures. [Rai Chowdhuri, A. N. & Thomas, A. K.], (41)
Reclassification of Simuliidae (Diptera) of Africa and its islands. [Crosskey, R. W.], 1166
Research in protozoology. Vol. 2. [Chen, T. T., ed.], 215
Santé et développement en Afrique. [Aujoulat, L. P.], 211
Schistosomiasis. [Ross Institute Information & Advisory Service], 2740
Seminar on malaria, Bangkok, 1967. [S.E. Asian Regional Centre for Tropical Medicine], (524)
Short keys to bloodsucking Simuliidae of U.S.S.R. [Rubtsov, I. A.], 1167
Short synopsis of human protozoology and helminthology. 2nd edit. [MacFarlane, L. R. S.], 1162
Skin test for prevalence of schistosomiasis in Puerto Rico. [Kagan, I. G., *et al.*], 616
Southeast Asian regional seminar on tropical medicine, 1st. Bangkok, 1967. [S.E. Asian Regional Centre for Tropical Medicine], (524)
Southeast Asian seminar on parasitology and tropical medicine, 4th. Manila, 1969. Schistosomiasis and other snail-transmitted helminthiasis. [Harinasuta, C., ed.], 2582
Surveillance and control of rabies. Report of conference, Frankfurt-on-Main, 1968. [WHO. Regional Office for Europe], 298
Survey of school children in Bombay City . . . . [Ramachandran, K. V., *et al.*], 1157
Symposium on biology and control of ticks in Southern Africa. Rhodes University, S. Africa, 1969. [Jansen, B. C., Chairman], 2071
Temperature coefficient of insecticidal action using radioactive DDT. [Zubairi, M. Y.], 1726
Textbook of malaria eradication. 2nd edit. [Pampana, E.], 209
Veterinary annual, 1969. [Grunsell, C. S. G., ed.], 1416
Veterinary medicine and human health. 2nd edit. [Schwabe, C. W.], 2748
Wheat in human nutrition. [Aykroyd, W. R. & Doughty, J.], 2907

Numbers refer to abstracts and *not* to pages (unless otherwise shown).

REPORTS

international
Food & Agriculture Organization of the United Nations
Nutritional Studies
No. 20 Learning better nutrition. A second study of approaches and techniques, 214
No. 22. Manual on food and nutrition policy. (1154)
No. 23. Wheat in human nutrition, 2907
No. 24. Amino-acid content of food and biological data on proteins, (2984)
International Commission on Trichinellosis. Proceedings of 2nd international conference, Part I. 1969, Poland, Wroclaw, 2893
Pakistan—SEATO Cholera Research Laboratories. Proceedings of 6th meeting of Technical Committee and of 8th meeting of Directing Council. 2nd edits, (1231).
Pan American Health Organization. Nutritional anemias in Latin America and the Caribbean. Report of 2nd meeting. 1968, Caracas, Venezuela, (1977)
World Health Organization
Monograph Series No. 57. Interactions of nutrition and infection, 1164
Regional Office for the Western Pacific. Nutrition in maternal and child health . . ., 431
Technical Report Series
No. 431. Toxoplasmosis, 1360
No. 433. Parasitology of malaria, 2075
No. 434. African trypanosomiasis, 2369
No. 443. Insecticide resistance and vector control, 2052
No. 447. Expert Committee on Plague, 4th report, 2382
World health statistical reports
infective and parasitic diseases, 1955–67 mortality, (2329)
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East African Community. Institute for Medical Research. 1968 annual report, 2333
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National Institute of Nutrition (formerly Nutrition Research Laboratories), 1968–69 annual report, (1156)
Nutrition Research Laboratories
1967–68 annual report, (1155)
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Rhodesia. Ministry of Agriculture. Branch of Tsetse and Trypanosomiasis Control. 1967–68 annual report, 248
United Kingdom. Medical Research Council. 1969–70 annual report, (2983)

THESES

El problema de la toxoplasmosis en España. Su investigación. [Aparicio Garrido, J.], (717)
Treponematosis of Tahiti. Its origin and evolution. A study of the sources. [Van der Sluis, I.], 1161
Untersuchungen über SFT-antikörpernachweis gegen *Toxoplasma gondii* im Fleischpress-saft von Schlachtschweinen. [Fuhr, R.], 2009
Versuche zur Übertragung von *Toxoplasma gondii* durch Kot frisch infizierter Meerschweinchen, Schweine und Hunde. [Allmeling, D.], 2013

Numbers refer to abstracts and *not* to pages (unless otherwise shown).

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